ITU/ESCAP Regional Workshop APAC

Building secure societies

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Agenda

- [Ericsson Response](#), introduction
- Government Home Networks
- GHN Transportable Network
- GHN Portable Networks
- Emergency Response Systems
- Terminals

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Saving lives in an emergency..

- Availiability
- Interoperability
- Methodology
- Proactive and coordinated response
- Communications for voice and data

Why commercial technology

GSM/W-CDMA – the most deployed mobile communication technology in the world

World population ~6B

Population in GSM markets without coverage

1.900

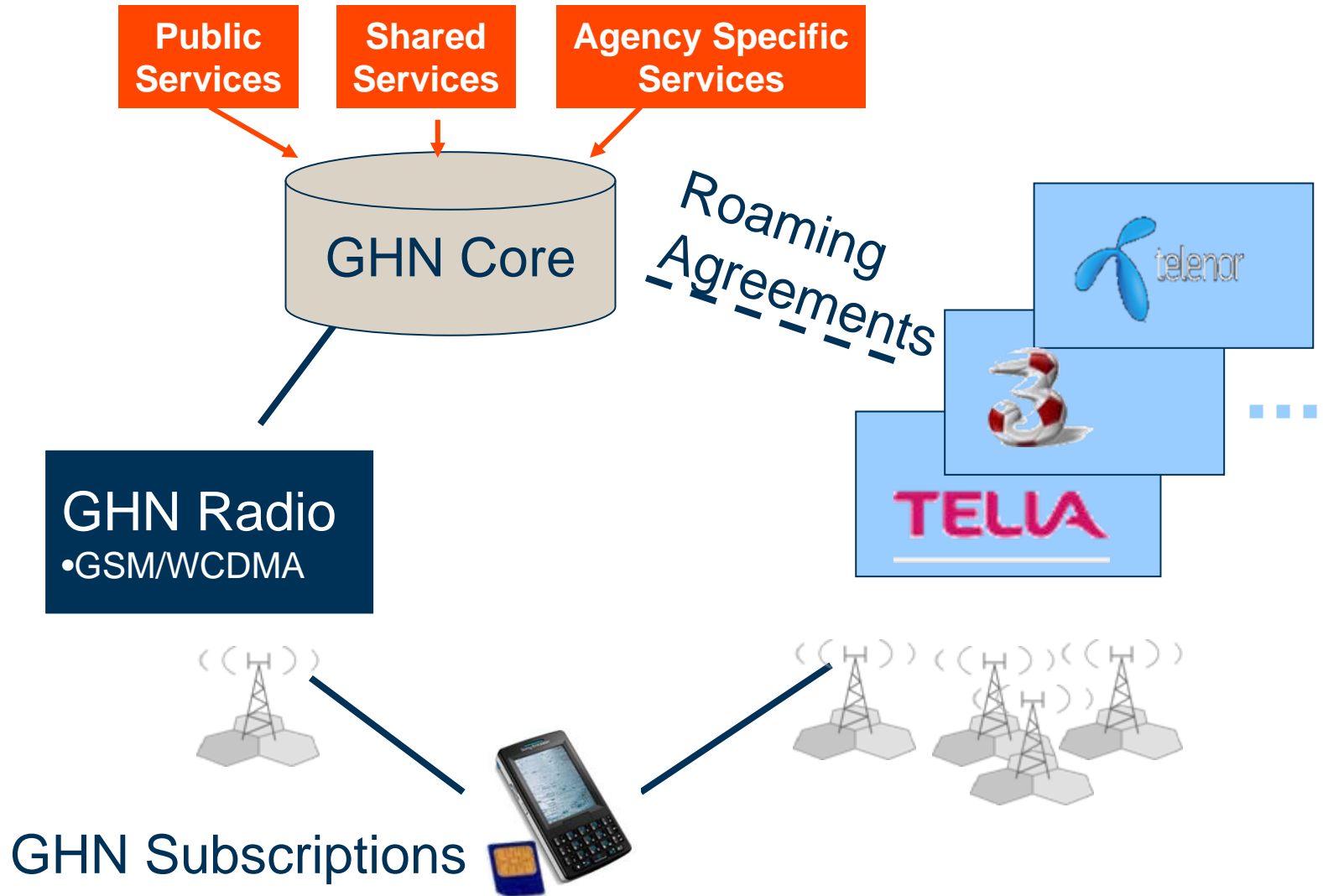**Population within GSM coverage, but with no subscription**

2,000

GSM users

2,100

- GSM the worlds largest mobile standard

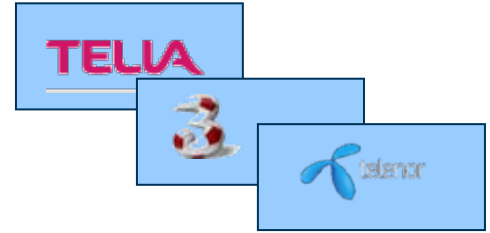- 1 Million New subscriber/day

- Offers full roaming capabilities

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Government Home Networks (GHN)
Concept overview

National roaming enables

- **Reduce Cost**
    - Investment can be <1% of the cost of building own radio network coverage
    - Reducing OPEX drastically

- **High network availability and coverage from day one**

- **Always best Connected**
    - Possibility to access through the operator with the best local capacity

Leverage on already existing Infrastructure

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GHN Transportable Network

- **QuicLINK^{TM}**
    - One autonomous WCDMA network in a box
    - Possible cluster several QuicLINK^{TM}

- **COTS GSM/WCDMA Transportable Network**
    - Semi-Permanent solution
    - GSM and/or WCDMA enabled
    - Autonomous core and radio coverage

Ericsson Response for years in humanitarian relief operation service
GSM R11 container with EriTac transmission system

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QuicLINK™

- Autonomous WCDMA network

- High mobility and Rapid deployment

- Automatic clustering with up to 10 QuicLINK™ units

WCDMA 2100 and 1900
Weight 50kg
Max 50'000 subscribers
Up to 70 simultaneous voice calls
Up to 7 packets data calls (64 kbps)
Up to 32 HSPA active users
(5 Mbps downlink, 2 Mbps uplink)

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Characteristics Data Capacity
5 seconds over different bandwidths

Downlink 2 Mbit/s
Image size 1.25 MByte
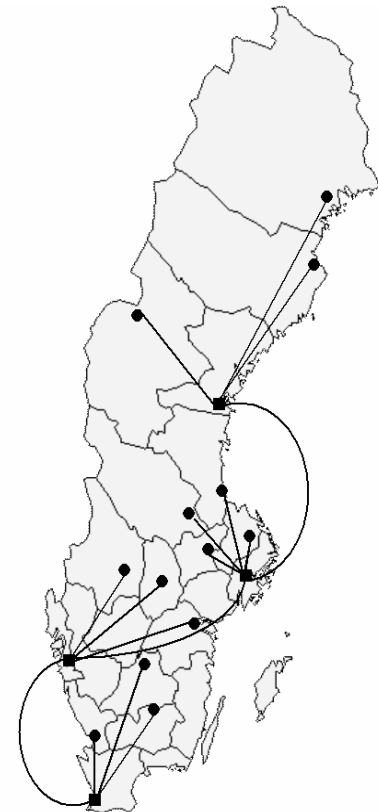
Downlink 384 kbit/s
Image size 0.24 MByte

Downlink 12 kbit/s
Image size 7.5 kByte

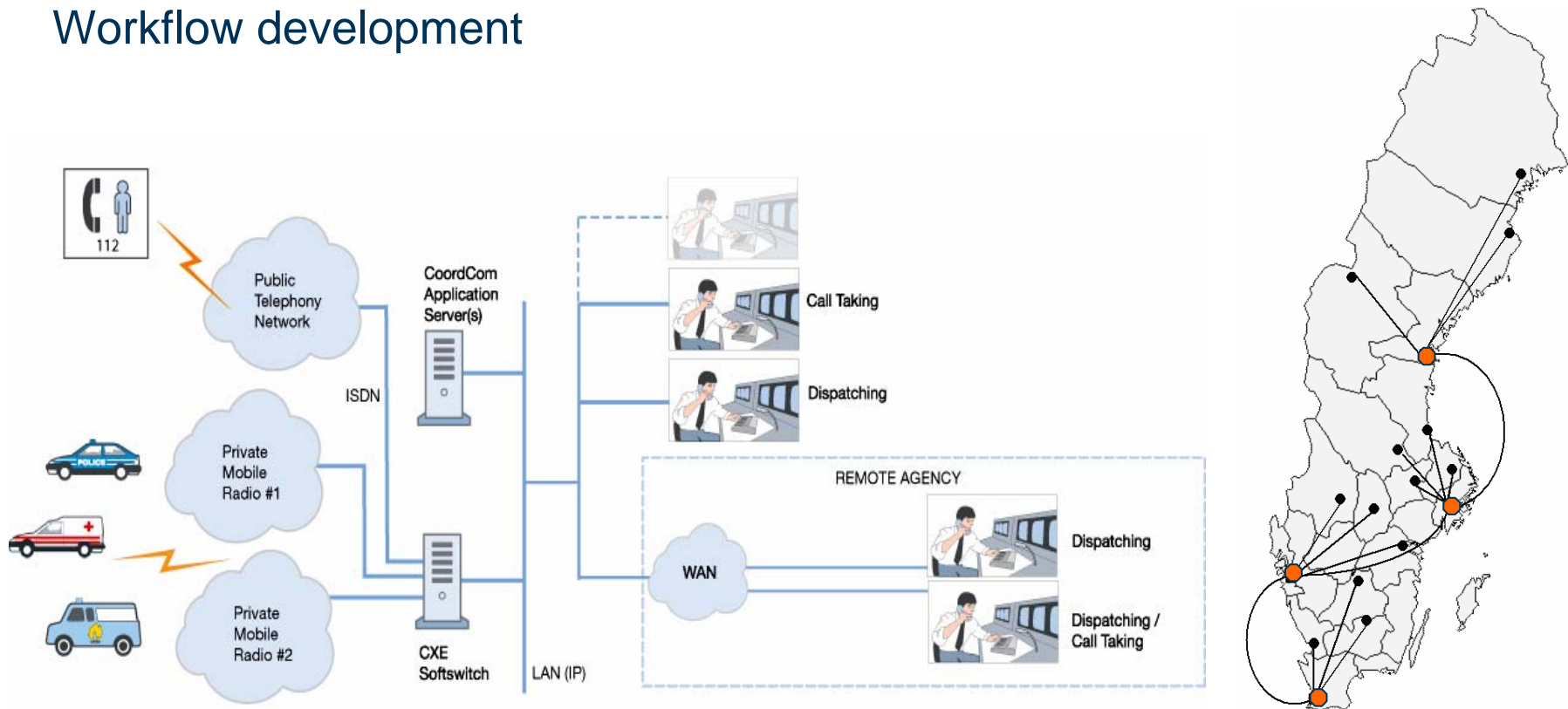Downlink 5 kbit/s
Image size 3.1 kByte

Image transfer is possible with all bandwidths, however the spectrum of purposes differs.

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Multi organization, multi site total integrated command and control center for Public Safety or national security

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- System integration
- Multi-agency environment & Workflow development
- Full interoperability with free geographical sites

Rugged Handsets
Some of the vendors

- Phone
  - Nokia
  - Sagem
  - Benefon
- PDA/Phone
  - TDS
  - Symbol
  - Login
  - Panasonic
- Laptops/Tablets
  - Panasonic Toughbook
  - Getac
  - Handheld

Available on the commercial market..!

www.ericsson.com/solutions/government